



**TWELFTH ANNUAL DOD LOW-LEVEL RADIOACTIVE WASTE
(LLRW) GENERATORS MEETING**

**Project Updates – Twin Cities AAP,
Ft. McClellan & Lake City AAP**

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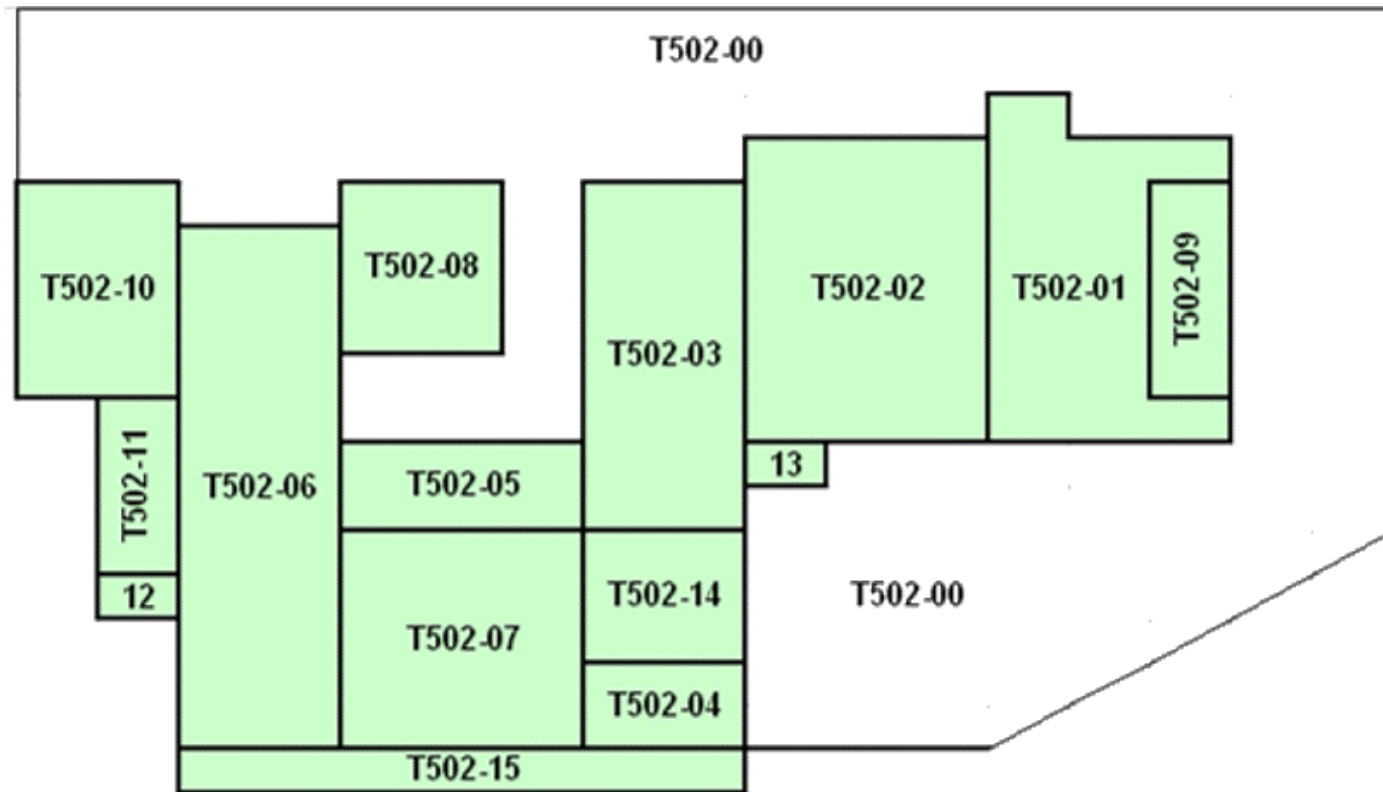
Twin Cities AAP – Building 502 Radiological Decommissioning



DOD Low-Level Radioactive Waste (LLRW) Program

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TCAAP Building 502 DU-Wing



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TCAAP Science Experiments



www.Nuke



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TCAAP Asbestos Abatement



TCAAP GAU-8 DU Residuals



TCAAP Building 502 Work in Progress



Pelham Range Radiological Decommissioning



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Pelham Range History

- 1952 - Army Procures the first 10 Co-60 Sources
- 1954 - Army Adds 500 Ci of Co-60
- 1956 - 90+ Sources Wells, Approval for 300
- May 1957 - Burial Ground Established (Used until 1972)
- 1957 - AEC Licensed Ft. McClellan Sources
- 1965 – Pelham Range had 1,024 Sources with Hydroelectric Actuators



Ft. McClellan Burial Mound

April 1998 Photo





Ft. McClellan – Burial Mound

April 1998 Photo





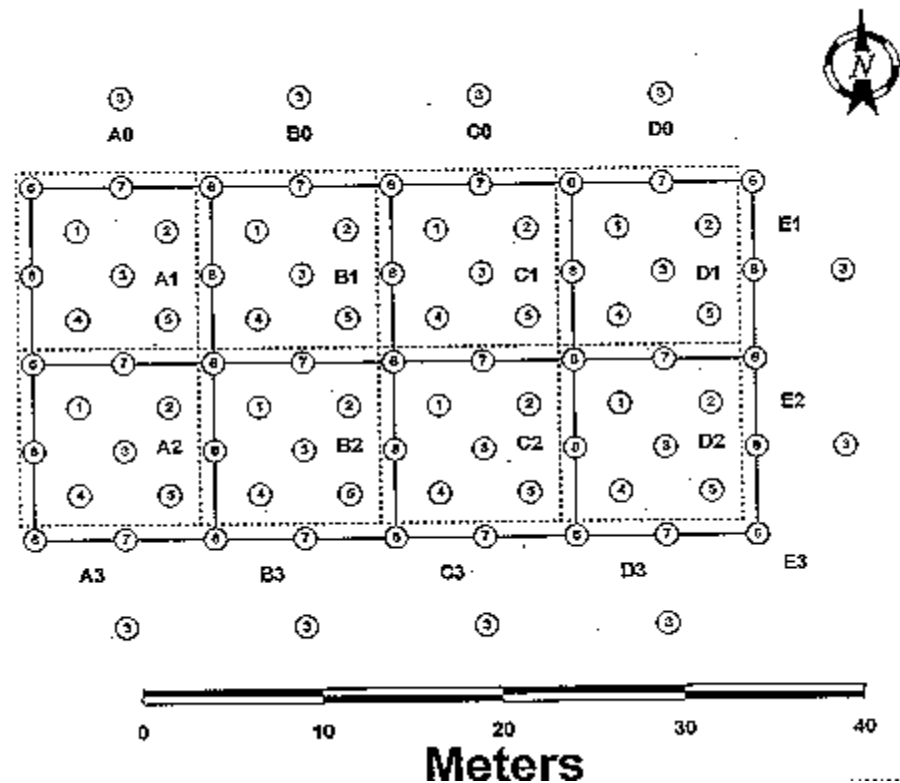
Chronological History of Decommissioning Activities

- 1995-96 – Burial Mound Characterization
Performed by CHPPM
- November 1999 – Historical Site Assessment
Performed by St. Louis COE
- March 2001 – Burial Mound Decommissioning Plan
Approved by NRC
- July 2001 – ATG Mobilized to Begin
Decommissioning Activities



1995-96 – CHPPM Characterization Sample Points

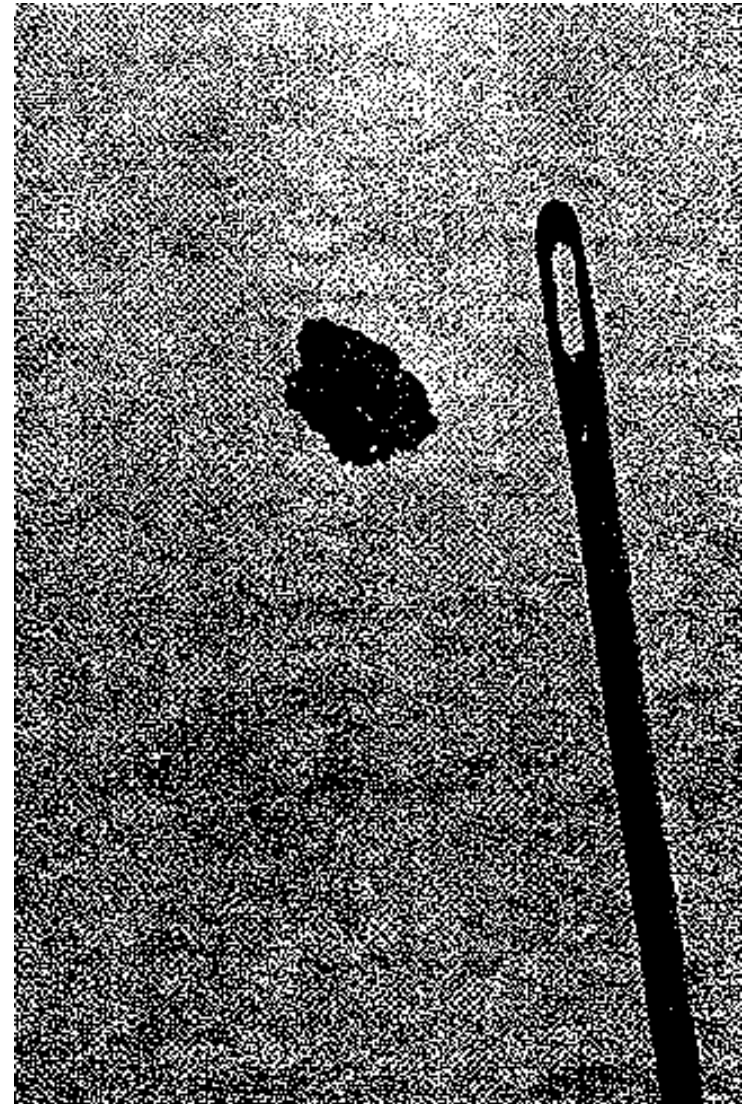
- 61 Core Borings
- Down Hole Gamma Logging
- 571 Soil Samples at 2'-12' Depth
- 15 Surface Soil Samples
- Detailed Background Analysis
- Gamma Exposure Rate Measurements
- 100% Gamma Walkover Survey





High Activity Cobalt Particle

- **Cobalt Flake**
- **Identified in Characterization**
- **253,000 pCi**
- **0.0043 g**





Ft. McClellan Landfill



Site Decommissioning



Field Screening of Mound Material



Jan '02



Sand Screening/Sorting





Field Screening Instrument Array



Jan '02



View from the Clean Spoils Pile



Jan '02



Excavation Pit – Jan '02



Lake City AAP

The Never Ending Story



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Lake City AAP Firing Range - Aerial View



600 yd Bullet Catcher





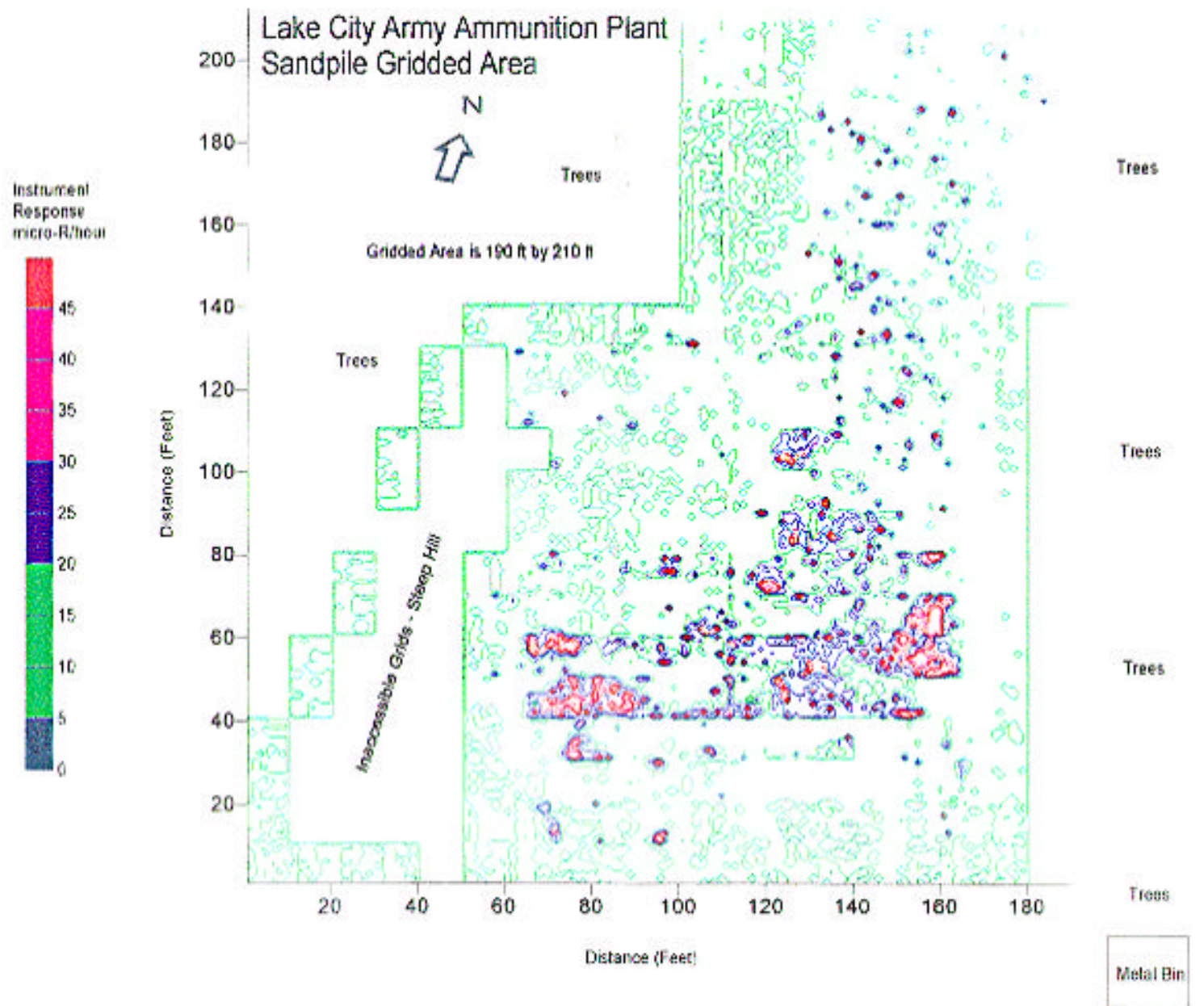
OLIN ORDNANCE

- 1985 Olin became operating contractor
- The Army DU program at Lake City had been completed
- Olin DID NOT license the DU on the firing range
- The Army added the Lake City firing range to their NRC license for storage and possession of DU
- 1990 the NRC added Lake City to their SDMP list



ARMY CHARACTERIZATION

- Range characterized in 1993
- Area 10 decommissioning in 1998
- Building 3A and 600-yard bullet catcher decommissioning in Jun 2001
- Remaining mixed waste may 2002
- Impact areas & area 10 under EPA



20 mm DU Spotter Round



Building 3A – DU Wing Decommissioning



Building 3A Sewer Lines



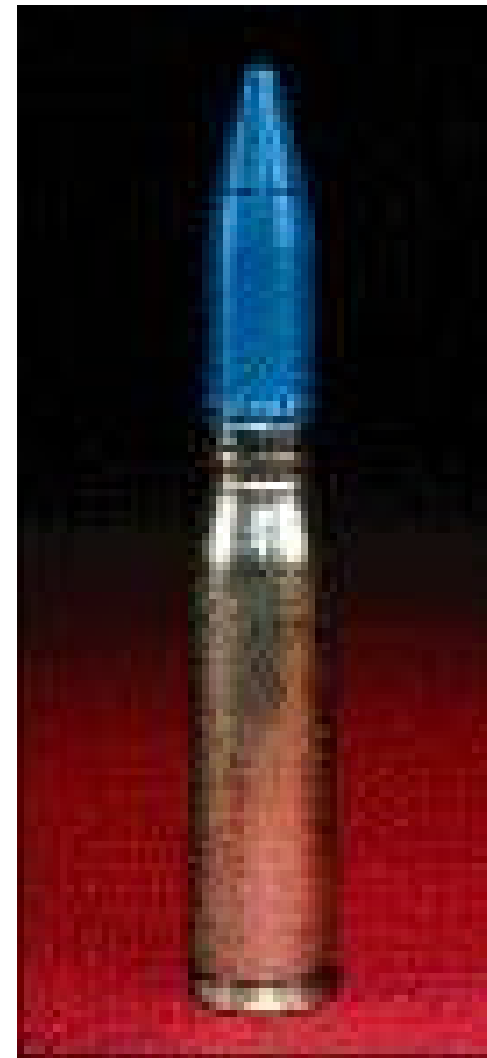
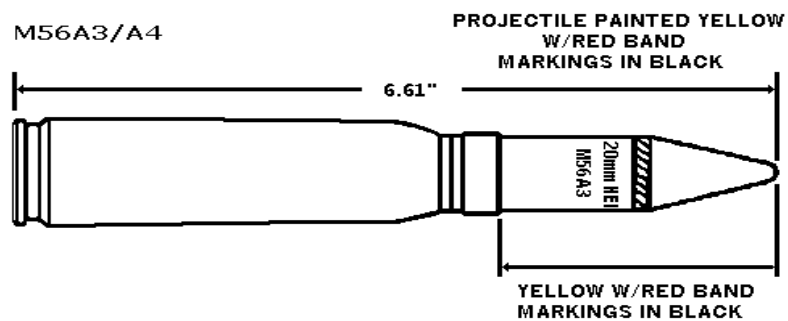
600 yd Bullet Catcher



40 yd³ of REALLY-Mixed Waste



20 mm HE Projectiles



Hydro-Cutting Projectiles





Questions?